



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,211	09/28/2005	Takashi Takeda	2003JP309	4266
26289	7590	06/28/2007	EXAMINER	
AZ ELECTRONIC MATERIALS USA CORP. ATTENTION: INDUSTRIAL PROPERTY DEPT. 70 MEISTER AVENUE SOMERVILLE, NJ 08876			CHU, JOHN S Y	
ART UNIT		PAPER NUMBER		
1752				
MAIL DATE		DELIVERY MODE		
06/28/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/551,211	TAKEDA	
	<b>Examiner</b>	<b>Art Unit</b>	
	John S. Chu	1752	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 28 September 2005.

2a) This action is FINAL.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-5 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-5 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 2/13/06.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_.

## DETAILED ACTION

This Office action is in response to the application filed September 28, 2005.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

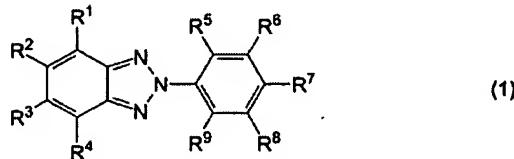
A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by KESSELMAN et al.

The claimed invention is drawn to the following;

1. (original) An improver for adhesion of a photosensitive resin composition to a substrate, which consists of an N-phenyl-2H-benzotriazole compound represented by the general formula (1):



wherein R<sup>1</sup> to R<sup>4</sup> each independently represent a hydrogen atom, a halogen atom or a C<sub>1-5</sub> alkyl group; R<sup>5</sup> to R<sup>9</sup> each independently represent a hydrogen atom, a hydroxyl group, a C<sub>1-10</sub> alkyl group, an aryl group, a C<sub>7-12</sub> aralkyl group, -R<sup>10</sup>COOR<sup>11</sup>, or -R<sup>10</sup>CO-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OH provided that at least one of R<sup>5</sup> to R<sup>9</sup> is a hydroxyl group; R<sup>10</sup> represents a C<sub>2-5</sub> alkylene group; R<sup>11</sup> represents a C<sub>1-8</sub> alkyl group; and n is an integer of 2 to 20.

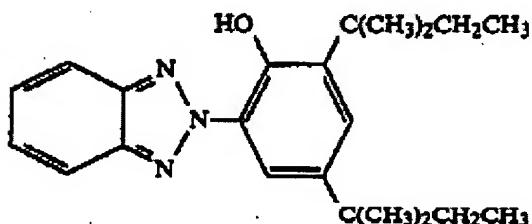
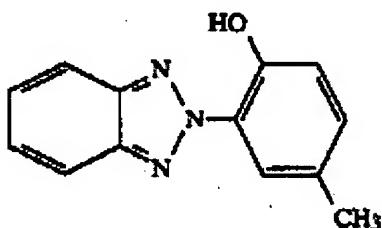
2. (original) A photosensitive resin composition containing an alkali-soluble resin and a photosensitizer, which comprises at least one of N-phenyl-2H-benzotriazole compounds represented by the general formula (1) in claim 1.

KESSELMAN et al anticipates the claimed invention at Examples 1 and 2 in column 5,

line 67 – column 7, line 20 . The phenyl benzotriazole compounds as seen below:

Art Unit: 1752

**Tinuvin P is a substituted hydroxyphenyl benzotriazole. It is a resonance hybrid of the following limiting structure:**



The composition of KESSELMAN et al further disclose the use of an alkai-soluble resin and a quinone diazide compound in column 6, lines 1-45 as disclosed in the examples.

No claims are allowed.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. TOAN et al is cited of interest as disclosing benzotriazoles.
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Cynthia Kelly, can be reached on (571) 272-1526

The fax phone number for the USPTO is (571) 273-8300.

Art Unit: 1752

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John S. Chu/  
Primary Examiner, Group 1700

J.Chu  
June 24, 2007